

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) An isolated clamp loader complex comprising a delta subunit, tau subunit, and a *Thermotoga* delta prime subunit of a *Thermotoga* DNA polymerase III-type enzyme, the delta prime subunit being encoded by a nucleic acid molecule hybridizing to the complete complement of SEQ ID NO: 147 under hybridization conditions that are at least as stringent as use of a medium comprising 5X sodium citrate buffer and at a temperature of 65°C, followed by washing in 5X sodium citrate buffer at 65°C ~~0.9M sodium citrate buffer at a temperature of 37°C.~~
2. (Previously presented) The isolated clamp loader complex according to claim 1 wherein the *Thermotoga* species is *Thermotoga maritima*.
- 3-4 (Cancelled)
5. (Previously presented) The isolated clamp loader complex according to claim 1 wherein the complex is purified.
6. (Cancelled)
7. (Previously presented) A DNA polymerase III-type enzyme complex comprising the clamp loader complex according to claim 1.
8. (Original) A kit comprising:
a container that contains therein either a deoxynucleoside triphosphate or a dideoxynucleoside triphosphate; and
a container that contains therein the DNA polymerase III-type enzyme complex according to claim 7.
- 9-10. (Cancelled)
11. (Previously presented) The isolated clamp loader complex according to claim 1, wherein the delta prime subunit is at least 80 percent identical to the amino acid sequence of SEQ ID NO: 148.

12. (Previously presented) The isolated clamp loader complex according to claim 1, wherein the delta prime subunit is at least 90 percent identical to the amino acid sequence of SEQ ID NO: 148.

13. (Previously presented) The isolated clamp loader complex according to claim 1, wherein the delta prime subunit is at least 95 percent identical to the amino acid sequence of SEQ ID NO: 148.

14. (Previously presented) The isolated clamp loader complex according to claim 1, wherein the encoding nucleic acid molecule is at least 90 percent identical to the nucleotide sequence of SEQ ID NO: 147.

15. (Previously presented) The isolated clamp loader complex according to claim 1, wherein the encoding nucleic acid molecule is at least 95 percent identical to the nucleotide sequence of SEQ ID NO: 147.

16. (Previously presented) An isolated *Thermotoga* delta prime subunit of a DNA polymerase III-type enzyme, the isolated delta prime subunit comprising the amino acid sequence of SEQ ID NO: 148.

17. (Previously presented) A clamp loader complex comprising the *Thermotoga* delta prime subunit according to claim 16.

18. (Previously presented) A DNA polymerase III-type enzyme complex comprising the clamp loader complex according to claim 17.

19. (Previously presented) A kit comprising:
a container that contains therein either a deoxynucleoside triphosphate or a dideoxynucleoside triphosphate; and
a container that contains therein the DNA polymerase III-type enzyme complex according to claim 18.